

Format AS1: Generator Details by RRAS Provider

From: NTPC Barh/NTPC Ltd

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To: ERPC, Kolkata

Validity of the Information: From 16/01/2024 to 15/02/2024

Date:05/01/2024

	S. No	Title/Parameters	Values/Data
	a)	Number of Generating Units	ST# 1: 2*660 MW
			ST# II: 2*660 MW
	b)	Total Installed Capacity (MW)	2640(1320 + 1320) MW
	c)	Maximum Possible Ex-Bus injection (MW)	ST#I: 1237.5 MW
		(including overload, if any)	ST# II: 1237.5MW
	d)	Technical Minimum (MW)	ST#I: 680.63 MW
			ST# II: 680.63MW
	e)	Type of Fuel	CoalBituminous/Sub Bituminous
	f)	Region	Eastern Region
	g)	Bid Area	
	h)	Fixed Cost (paise/KWh up to one decimal	St-I: 241.7 Paise/Kwh
1100		place)	St-II: 183.5 Paise/Kwh
HEAD R AN	i)	Variable Cost (paise/Kwh up to one decimal	St-I: 305.2 Paise/Kwh
		place)	St-II: 306.7 Paise/Kwh
(1) FULL FRI THE F	j)	Rämp-Up Rate (MW/Min) for each unit	St-I/II: 6.19 / 6.19 MW/Min
CONTROLER INC.	(k)	Ramp-Down Rate (MW/Min)for each unit	St-I/II: 6.19/6.19 MW/Min
	1)	Start-Up time from Cold Start(in Min) and	Cold: 2100 Mins
		Warm Start (in Min)for each unit	Warm: 900 Mins
	m)	Any other information	

ARSIA Signed by: Name: A R Dash Designation: GM (OS) V. SIV. CIV /A. R. DASH V. SIV. CIV /A. SIV. CIV /A



Format AS1: Generator Details by RRAS Provider From: FSTPP/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/01/2024 to 15/02/2024

Date: 05/01/2024

S. No	Title/Parameters	Values/Data	
a)	Number of Generating Units	ST # I& II: 3*200+2*500 MW	
)		ST# III: 1*500 MW	
b)	Total Installed Capacity (MW)	ST # I& II: 1600 MW	
~)		ST# III: 500 MW	
c)	Maximum Possible Ex-Bus injection (MW)	ST #I&II:1557.0 MW	
-)	(including overload, if any)	ST# III: 494.0 MW	
d)	Technical Minimum (MW)	ST # I&II: 820.3 MW	
)		ST# III: 257.8 MW	
e)	Type of Fuel	CoalBituminous/Sub-Bituminous	
f)	Region	Eastern Region	
e)	Bid Area		
h)			
)	place)	ST# III: 148.7 Paise/KWh	
i)	Variable Cost (paise/Kwh up to one	ST# I & II: 370.2 Paise/KWh	
-/	decimal place)	ST# III: 307.2 Paise/KWh	
j)	Ramp-Up Rate (MW/Min) for each unit	For 200 MW Stage I: 1.83MW/Unit/Min	
37		For 500 MW Stage II: 4.71MW/Unit/Min	
		For 500 MW Stage III: 4.69 MW/Unit/Min	
		For commercial stage I: 14.92 MW/min	
k)	Ramp-Down Rate (MW/Min)for each unit	-do-	
1)	Start-Up time from Cold Start(in Min) and	ST#I, II &III : Cold : 360 Minutes	
-/	Warm Start (in Min)for each unit	ST#I, II & III : Warm: 240 Minutes	
m)	Any other information	840 Minutes in case of unit shutdown period	
		is more than 5 days as boiler will be kept	
		under preservation.	

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Format AS1: Generator Details by RRAS Provider From: KhSTPP/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/01/2024 to 15/02/2024

Date: 05/01/2024

S. No	Title/Parameters	Values/Data
a)	Number of Generating Units	4X210 MW + 3X500 MW
b)	Total Installed Capacity (MW)	ST# I: 840 MW
		ST# II: 1500 MW
c)	Maximum Possible Ex-Bus injection (MW)	2237MW
	(including overload, if any)	(803+1434)MW
d)	Technical Minimum (MW)	1194 MW(421 +773)MW
e)	Type of Fuel	Coal-Bituminous/Sub Bituminous
f)	Region	Eastern Region
g)	Bid Area	0
h)	Fixed Cost (paise/KWh up to one decimal	ST#I: 104.5 Paise/KWh
	place)	ST# II: 92.3 Paise/KWh
i)	Variable Cost (paise/Kwh up to one decimal	ST# I : 298.6 Paise/KWh
	place)	ST# II: 283.2 Paise/KWh
j)	Ramp-Up Rate (MW/Min) for each unit	Stage I- 28.7 MW/15 min Block/Unit
100		Stage II- 70.3MW/15min Block/Unit
k)	Ramp-Down Rate (MW/Min)for each unit	-do-
l)	Start-Up time from Cold Start(in Min) and	Stage I- 360/240 Min
	Warm Start (in Min)for each unit	Stage II- 360/240 Min
m)	Any other information	840 Minutes in case of unit shutdown
		period is more than 5 days as boiler will
		be kept under preservation

ARNON

Signed by: Name: A R Dash Designation: GM (OS)

ए. अगर. दाश /A. R. DASH महाप्रबंधक (प्र. से.) /General Manager (OS) महाप्रबंधक (प्र. से.) /General Manager (OS) प्रहोगेसी, प्रहे.-1 (तु०) / NTPC, ER-1 HQ. प्रटना / PATNA

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Format AS1: Generator Details by RRAS Provider From: TSTPP-I /NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/01/2024 to 15/02/2024

Date: 05/01/2024

Date. C	/3/01/2024	1
S. No	Title/Parameters	Values/Data
a)	Number of Generating Units	2*500 MW
b)	Total Installed Capacity (MW)	1000MW
c)	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	945 MW
d)	Technical Minimum (MW)	511.23 MW
e)	Type of Fuel	Coal Bituminous/Sub Bituminous (Start-Up with HFO/LDO)
f)	Region	Eastern Region
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	95.6 Paise/Kwh
i)	Variable Cost (paise/Kwh up to one decimal place)	156.4 Paise/Kwh
j)	Ramp-Up Rate (MW/Min) for each unit	4.65 MW/Min
k)	Ramp-Down Rate (MW/Min)for each unit	4.65 MW/Min
1)	Start-Up time from Cold Start(in Min) and Warm Start (in Min)for each unit	Cold: 360 Mins Warm: 240 Mins 840 Mins if recalled after more than 5 days
m)	Any other information	-

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Signed by: Name: A R Dash Designation: GM (OS) ए. आर. दाश /A. R. DASH महाप्रबंधक (प्र. से.) /General Manager (OS) महाप्रबंधक (प्र. से.) /General Manager (OS) एतरीपीसी, पू.से.-1(मु॰) / NTPC, ER-1HQ. एतरीपीसी, पू.से.-1(मु॰) / NTPC, ER-1HQ.

n Year



Format AS1: Generator Details by RRAS Provider From: Darlipali STPP/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/01/2024 to 15/02/2024

Date: 05/01/2024

S. No	Title/Parameters	Volume /D
a)	Number of Generating Units	Values/Data
b)	Total Installed Capacity (MW)	2x800MW
c)	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	1600 MW 1575MW
d)	Technical Minimum (MW)	825
e)	Type of Fuel	Primary :Coal Bituminous/ Sub
f)	Region	Bituminous, Secondary: LDO
g)	Bid Area	Eastern Region
h)	Fixed Cost (paise/KWh up to one decimal place)	165.7
i)	Variable Cost (paise/Kwh up to one decimal place)	127.5
)	Ramp-Up Rate (MW/Min) for each unit	7.5 MILLA (*
()	Ramp-Down Rate (MW/Min)for each unit	7.5 MW/Min
)	Start-Up time from Cold Start(in Min) and Warm Start (in Min) for each unit	7.5 MW/Min Cold: 2220 Min
n)	Any other information	Warm: 1500 Min Nil

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Signed by: Name: A R Dash Designation: GM (OS) R. STR. TTT /A. R. DASH R. STR. TTT /A. R. DASH USINGER (A. R.)/General Manager (OS) NERVICE (A. R.)/General Manager (OS)



Format AS1: Generator Details by RRAS Provider From: MTPS II STPP/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/01/2024 to 15/02/2024

Date: 05/01/2024

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	Values/Data	
Number of Generating Units	2x195MW	
Total Installed Capacity (MW)	390 MW	
Maximum Possible Ex-Bus injection (MW)	372.645 MW	
(including overload, if any)		
Technical Minimum (MW)	195.195	
Type of Fuel	Primary :Coal Bituminous/ Sub	
	Bituminous, Secondary: LDO	
Region	Eastern Region	
Bid Area		
Fixed Cost (paise/KWh up to one decimal	253.7	
place)		
Variable Cost (paise/Kwh up to one decimal	279.0	
place)		
Ramp-Up Rate (MW/Min) for each unit	1.77 MW/Min	
Ramp-Down Rate (MW/Min)for each unit	1.77 MW/Min	
Start-Up time from Cold Start(in Min) and	Cold: 360 Min	
Warm Start (in Min)for each unit	Warm: 240 Min	
	840 Minutes in case of unit shutdown	
	period is more than 5 days	
Any other information	Nil	
	Maximum Possible Ex-Bus injection (MW) (including overload, if any) Technical Minimum (MW) Type of Fuel Region Bid Area Fixed Cost (paise/KWh up to one decimal place) Variable Cost (paise/KWh up to one decimal place) Variable Cost (paise/KWh up to one decimal place) Ramp-Up Rate (MW/Min) for each unit Ramp-Down Rate (MW/Min)for each unit Start-Up time from Cold Start(in Min) and	

Signed by: Name: A R Dash Designation: GM (OS)

ए. आए. दाश /A. R. DASH महाप्रबंधक (प्र. से.) /General Manager (OS) एनटीपीसी, पू.क्षे.-I (मु॰) / NTPC, ER-I HQ. पटना / PATNA

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Format AS1: Generator Details by RRAS Provider From: NPGC/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/01/2024 to 15/02/2024

Date: 05/01/2024

S. No	Title/Parameters	
a)	Number of Generating Units	Values/Data
b)	Total Installed Constitution	3x660MW
c)	Total Installed Capacity (MW)	1980 MW
	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	1856.25 MW
d)	Technical Minimum (MW)	1020.04
e)	Type of Fuel	1020.94
		Primary :Coal Bituminous/ Sub
f)	Region	Bituminous, Secondary: LDO
g)	Bid Area	Eastern Region
h)	Fixed Cost (paise/KWh up to one decimal place)	216.8
)	Variable Cost (paise/Kwh up to one decimal place)	310.4
)	Ramp-Up Rate (MW/Min) for each unit	
()	Ramp Down Date (MANDA CLASS	6.19 MW/Min
)	NIT The time them. O II of the	6.19 MW/Min
	Start-Up time from Cold Start(in Min) and	Cold: 2100 Min
1)	Any other information	Warm: 900 Min Nil

Arm Signed by: Name: A R Dash Designation: GM (OS)

ए. आर. दार्श /A. R. DASH महाप्रबंधक (प्र. से.) / General Manager (OS) एनटोपीसी, ष्ट्रसे-1 (मु॰) / NTPC, ER-I HQ. पटना / PATNA

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Format AS1: Generator Details by RRAS Provider From: NKSTPP/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/01/2024 to 15/02/2024

S. No	Title/Parameters	Values/Data	
a)	Number of Generating Units	1x660MW	
b)	Total Installed Capacity (MW)	660 MW	
c)	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	646.22 MW	
d)	Technical Minimum (MW)	363	
e)	Type of Fuel	Primary: Coal Bituminous/ Sub Bituminous, Secondary: LDO	
f)	Region	Eastern Region	
g)	Bid Area	5	
h)	Fixed Cost (paise/KWh up to one decimal place)	240.5	
i)	Variable Cost (paise/Kwh up to one decimal place)	151.2	
j)	Ramp-Up Rate (MW/Min) for each unit	6.15 MW/Min	
k)	Ramp-Down Rate (MW/Min)for each unit	6.15 MW/Min	
1)	Start-Up time from Cold Start(in Min) and	Cold: 2880 Min	
	Warm Start (in Min)for each unit	Warm: 2160 Min	
m)	Any other information	Nil	

ARMA Signed by: Name: A R Dash Designation: GM (OS)

ए. आर. दाश / A. R. DASH महाप्रबंधक (प्र. से.) / General Manager (OS) एनटीपीसी, पूक्षे.-1 (पु॰) / NTPC, ER-1 HQ. पटना / PATNA

Format AS1:Generator Details by RRAS Provider

From: (Name of RRAS Provider Generating Station)/ (Name of Owner Organization) TEESTA-V POWER STATION (NHPC LTD.)

To: ERPC

Validity of the Information

From: 16/01/2024 To: 15/02/2024

Date: 10/01/2024

S. No.	Title/Parameters	Values/Data
a)	Number of Generating Units (e.g. 1 x 210MW+ 2 x 500MW)	3X170 MW
b)	Total Installed Capacity (MW)	510 MW
c)	Maximum possible Ex-bus injection (MW) (including over load if any)	529*
d)	Technical Minimum (MW)	N.A.
e)	Type of Fuel	WATER
f)	Region	EASTERN REGION
g)	Bid area	E1
h)	Fixed Cost	116.3 Paise/KWH
i)	Variable Cost	116.3 Paise/KWH
j)	Ramp-Up Rate (MW/Min)for each unit	45 MW/Min
k)	Ramp-Down Rate (MW/Min) for each unit	45 MW/Min
1)	Start-up Time from Cold Start (in Min) & Warm Start of each unit	15 min approx
m)	Any other information	

*As per water availability

Copy to: ERLDC

Signature of Authorized Signatory (with Stamp)

fñ Name: Dharmendra Kumar

Designation: DGM (E)

Format AS1: Generator Details by RRAS Provider

From: (Name of RRAS Provider Generating Station)/ (Name of Owner Organization) **RANGIT POWER STATION (NHPC LTD.)**

To: ERPC

Validity of the Information

From: 16/01/2024 To: 15/02/2024

Date: 10/01/2024

a)		
,	Number of Generating Units (e.g. 1 x 210MW+ 2 x 500MW)	3X20 MW
b)	Total Installed Capacity (MW)	60 MW
c)	Maximum possible Ex-bus injection (MW) (including over load if any)	62*
d)	Technical Minimum (MW)	N.A.
e)	Type of Fuel	WATER
f)	Region	EASTERN REGION
g)	Bid area	E1
h)	Fixed Cost	201.25 Paise/KWH
i)	Variable Cost	201.25 Paise/KWH
j)	Ramp-Up Rate (MW/Min) for each unit	15 MW/min
k)	Ramp-Down Rate (MW/Min) for each unit	15 MW/min
1)	Start-up Time from Cold Start (in Min) & Warm Start of each unit	15 min approx
m)	Any other information	

*As per water availability.

Copy to: ERLDC

Signature of Authorized Signatory (with Stamp)

Name: Dharmendra Kumar

Designation: DGM (E)

Format AS1: Generator Details by RRAS Provider

From: (Nabi Nagar Thermal Power Project)/ (Bhartiya Rail Bijlee Company Ltd.)

To: ERPC

Validity of the Information from: 16/01/2024 To: 15/02/2024

Date: 05/01/2024

S No.	Title/Parameters	Values/Data
a)	Number of Generating Units	4X250 MW
b)	Total Installed Capacity (MW)	4X250 MW
c)	Maximum possible Ex-bus injection (MW) (including overload if any)	910 MW
d)	Technical Minimum (MW) (per Unit)	137.5 MW (55% of Nameplate MCR, 9% APC)
e)	Type of Fuel	Coal + LDO
f)	Region	ER
g)	Bid area	. E1
h)	Fixed Cost (paise / kWh up to one decimal place)	232.6
i)	Variable Cost (paise / kWh up to one decimal place)	338.5
j)	Ramp-Up Rate (MW/15 min) for each unit	34.125
k)	Ramp-Down Rate (MW/15 Min) for each unit	34.125
1)	Start-up Time from Cold Start (in Min) & Warm Start of each unit	Cold Start: 480 min Warm Start:300 min
m)	Any other information	
		the second se

 Startup Time from Reserve Shut Down (in case Unit Shut Down Period is more than 5 days as Boiler will be kept under preservation)

Copy to: ERLDC

Sr. Manager (EEMG) बी.आर.वी.सी.एल. / BRBCL Signature of Authorized Signatomy (with Stanue) hayner. P.P.

Designation: Sr. Marian Aurangabad, Bihar

840 minutes

क्ला / AVINASH SHUKLA प्रबंधक (ई०ई०एम०जी०)

Format AS1: Generator Details by TRAS/SRAS/SCED Provider

From: Maithon Power Limited

To: ERPC

Validity of the Information

From: 16-01-2024 To: 15-02-2024

Date: 04-01-2024

S.No.	Title/Parameters	Values/Data
a)	Number of Generating Units (e.g. 1 x 210 MW + 2 x 500 MW)	2 x 525 MW
b)	Total Installed Capacity (MW)	1050 MW
c)	Maximum possible Ex-bus injection (MW) (including overload if any)	984.38
d)	Technical Minimum (MW)	541.41
e)	Type of Fuel	Bituminous/Sub-Bituminous coal (Start up with LDO and HFO)
f)	Region	Eastern
g)	Bid area	E1
h)	Fixed Cost (paise / kWh upto one decimal place)	137.0
i)	Variable Cost (paise / kWh upto one decimal place)	295.8
j)	Ramp-Up Rate (MW/Min) for each unit	4.92
k)	Ramp-Down Rate (MW/Min) for each unit	4.92
I)	Start-up Time from Cold Start (in Min) & Warm Start of each unit	Cold 720 Warm 300
m)	Any other information	840 min for RSD in case of unit shutdown period is more than 5 days as boiler will be kept under preservation.

Copy to:

Signature of Authorized Signatory (with Stamp)



Designation: Head - Commercial & Regulation, MPL